

Figure 1(a)

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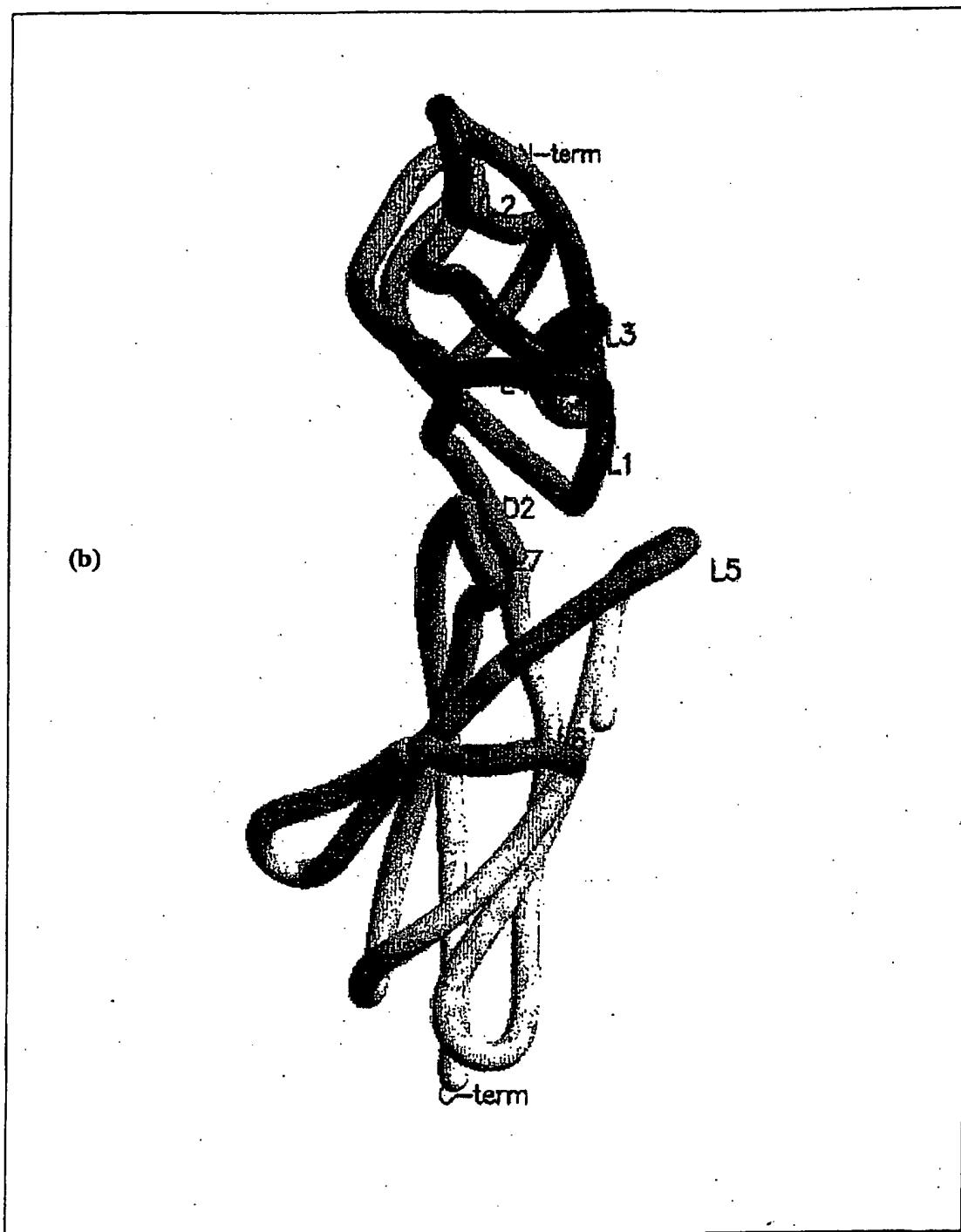


Figure 1(b)

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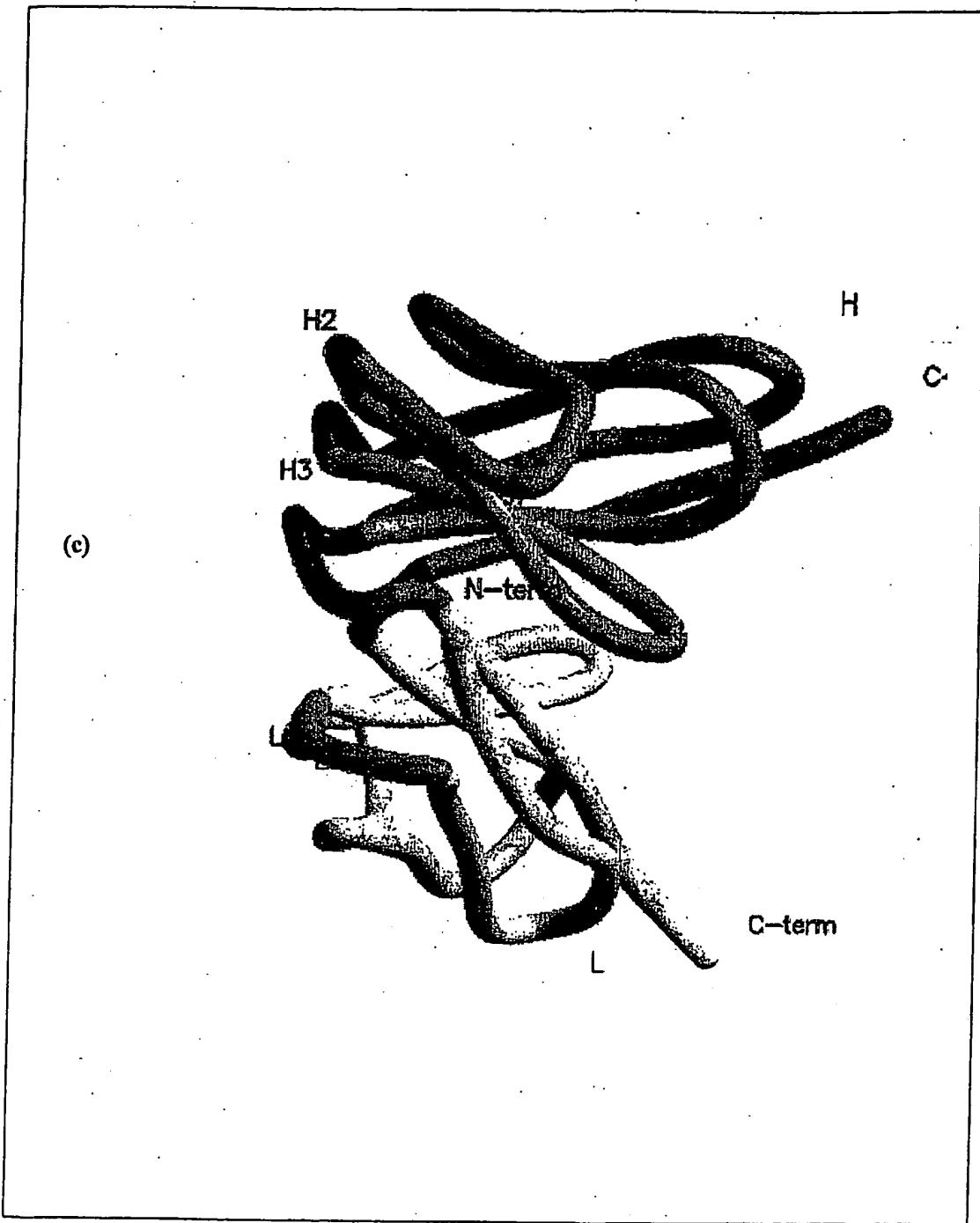


Figure 1(c)

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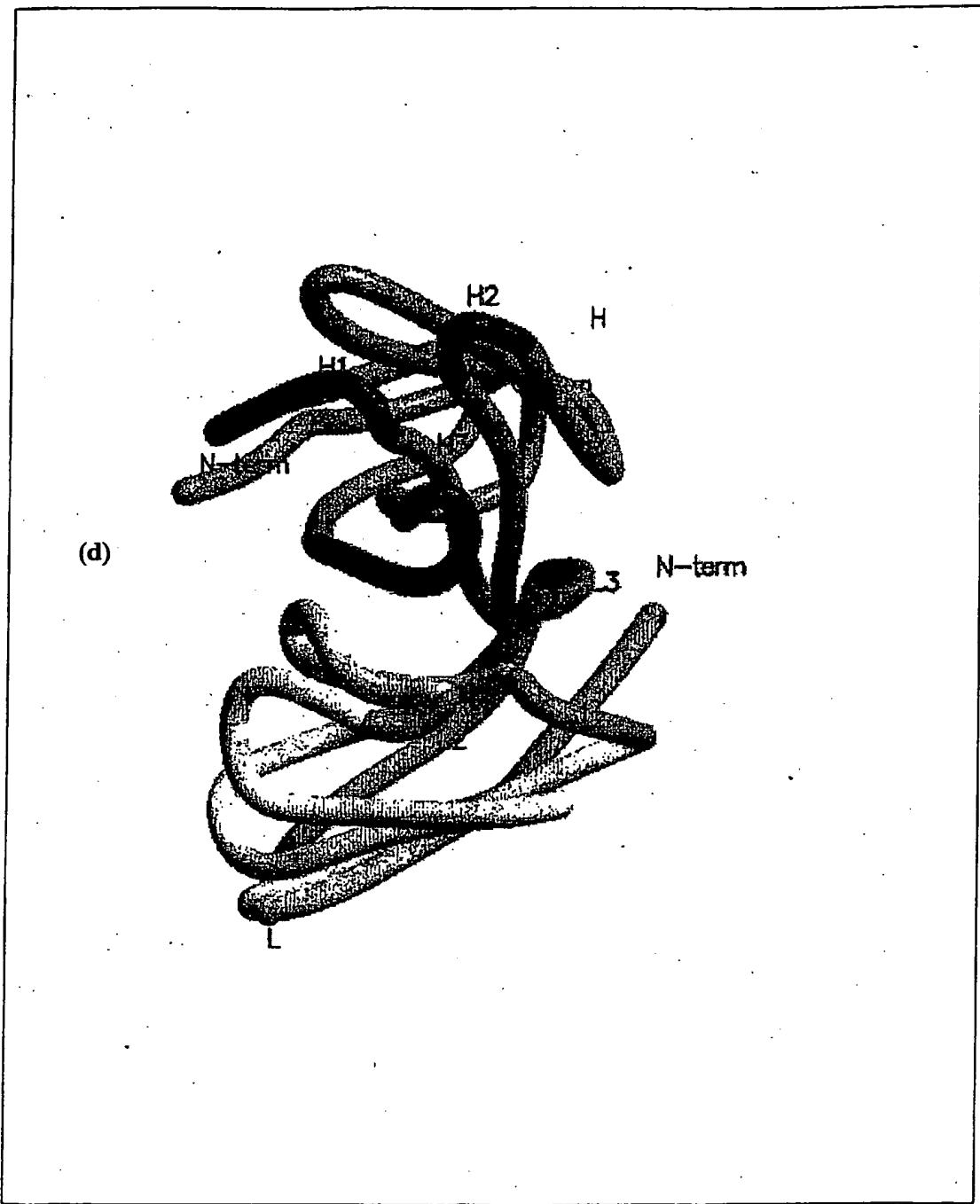
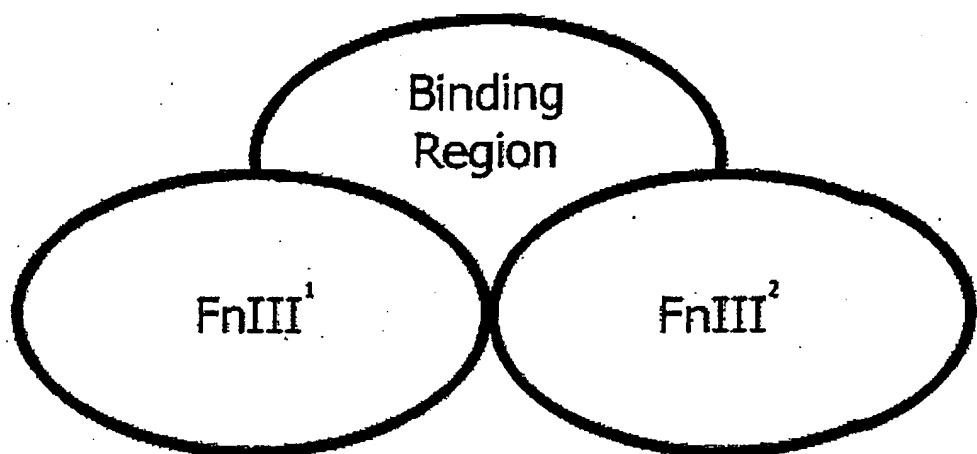


Figure 1(d)

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**Figure 1A**

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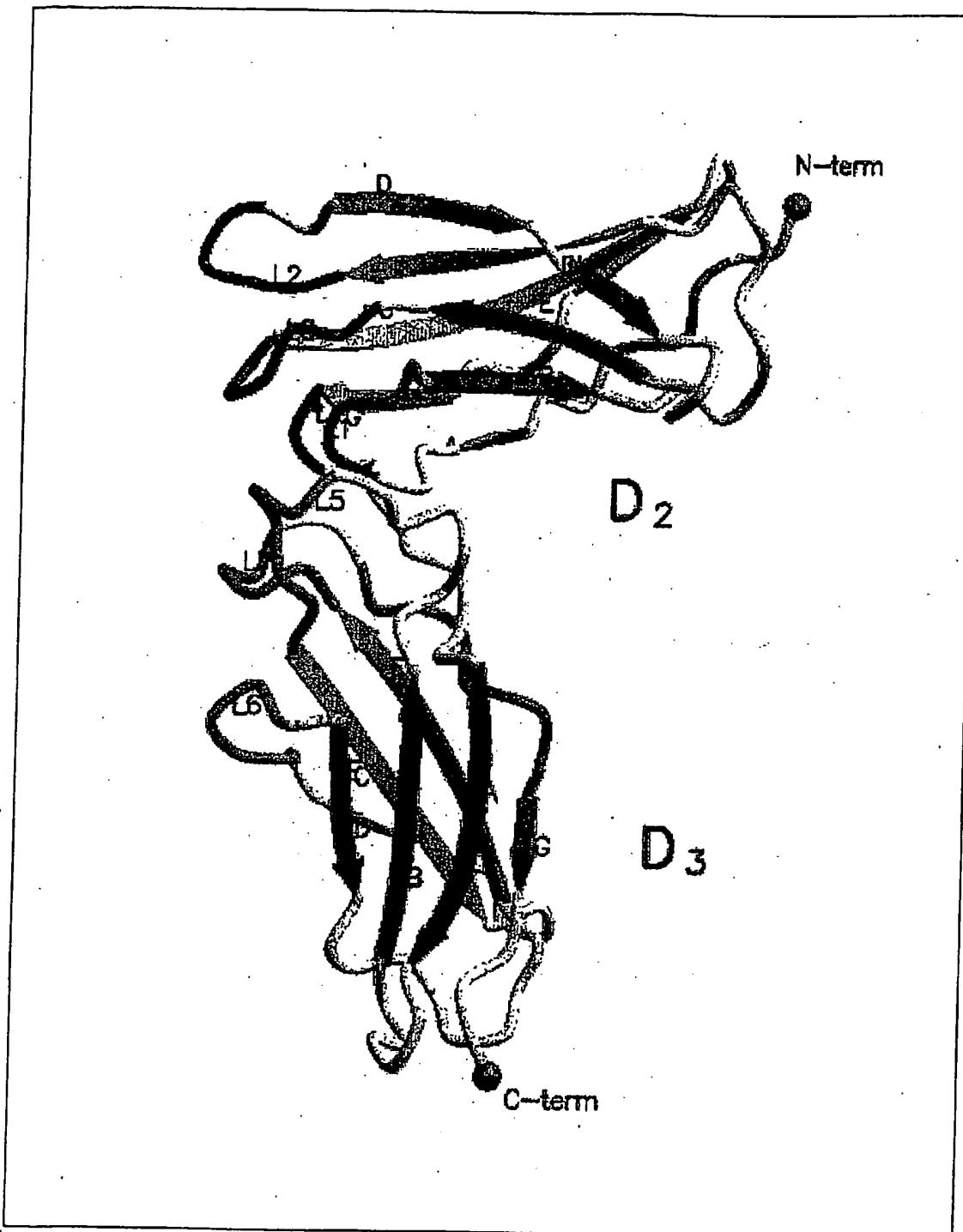
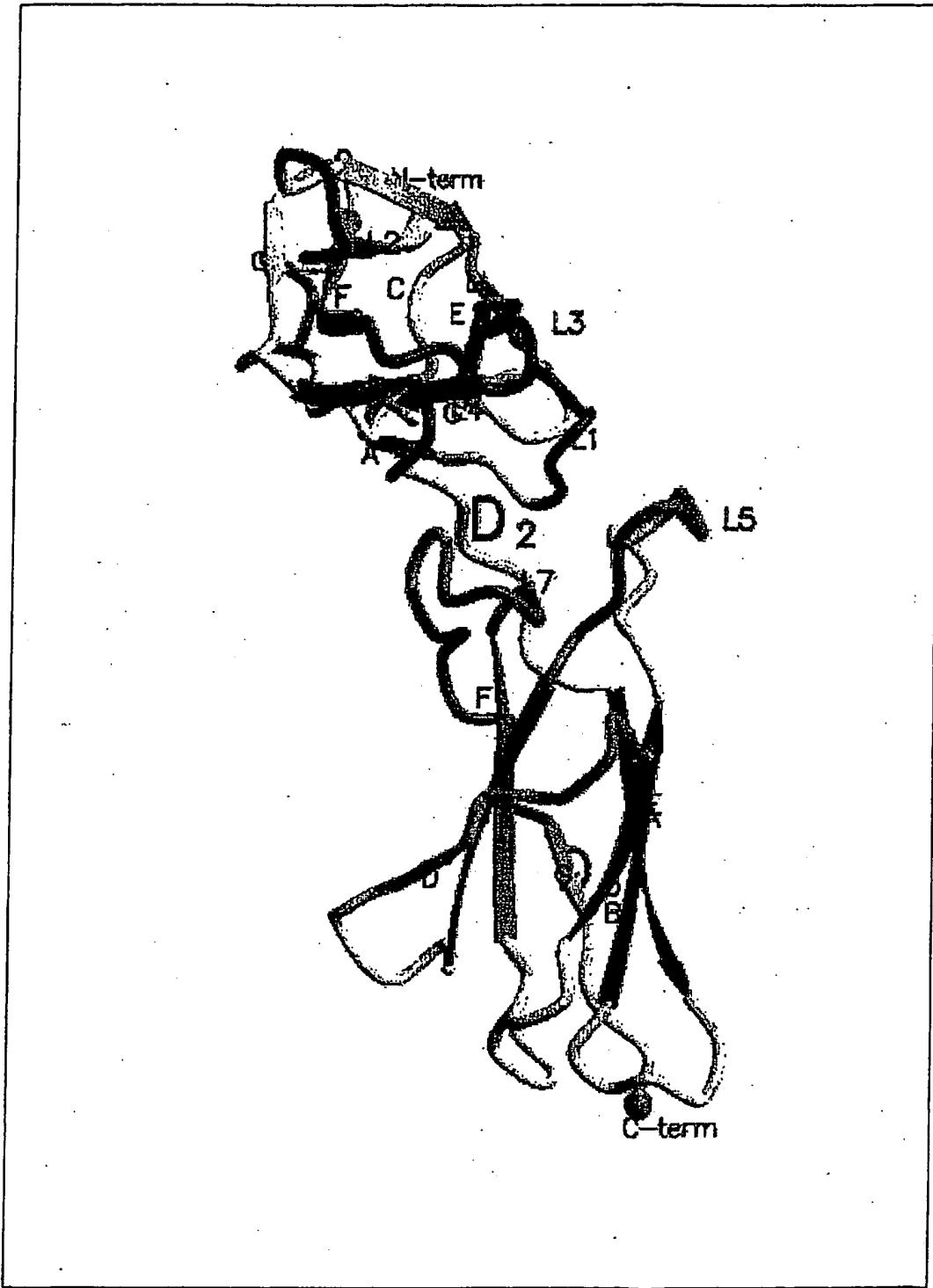


Figure 2(a)

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**Figure 2(b)**

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10 20 30 40 50  
 LAPRRCPAQE VARGVLTSLP GDSVLTCPG VEPEDNATVH WVLRKPAAGS

60 70 80 90 100  
 HPSRWAGMGR RLLLRSVQLH DSGNYSCYRA GRPAGTVHLL VDVPPEEPQLS

A#

110 120 130 140 150  
 CFRKSPLSNV VCEWGPRSTP SLTTKAVLLV RKFQNSPAED FQEPCQYSQE

## B##### C##### D, D'#####  
 \*\*\*\*\* \*\*\*\*\*  
 L1 L2

160 170 180 190 200  
 SQKFSCQLAV PEGDSSFYIV SMCVASSVGS KFSKTQTFQG CGILQPDPPA

E##### F##### G##### G'##### A#  
 \*\*\*\*\* \*\*\*\*\*  
 L3 L4

210 220 230 240 250  
 NITVTAVARN PRWLSVTWQD PHSWNSSFYR LRFELRYRAE RSKTFTTWMV

##### B##### C##### D#####  
 \*\*\*\*\* \*\*\*\*\*  
 L5

260 270 280 290 300  
 KDLQHHCVIH DAWSGLRHVV QLRAQEEFGQ GEWSEWSPEA MGTPWTESRS

E##### F##### G#####  
 \*\*\*\*\* \*\*\*\*\*  
 L6 L7

310 320  
 PPAENEVSTP MQALTTNKDD DNIL

# beta sheets; \* loops; ■ first domain (D2); □□□ second domain (D3)

**Figure 3**

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Approximate positioning of each loop in four of the cytokine receptor family members. The loop positions could vary up to 3 amino acids either side of the box. For example Loop 6 of the prolactin receptor is defined as GQQTEF and not FAQQ as depicted here.

IL6RPRRLR  
 P08887 | IL6A\_HUMAN | ----- VPPEEPQ-LSCFSPNK-ETFVCEWGPRSTPSLTTK  
 Q14626 | I11R\_HUMAN | LHDGNYSCY-RAGRPAVTWLLV VPPEEPQ-LSCFRKSPLSVVCEWGPRSTPSLTTK  
 P16471 | PRRL\_HUMAN | STDEGTYICQTLGALGGTVTLQL YPPARPV-VSCQAADY-ENFSCTWSPSQISGLPTR  
 Q99062 | GCSR\_HUMAN | MKENVASATVFTLLLFLNTCLLNG LPPGKPEIFKCRSPNK-ETFTCWWWRPGTDGGLPTN  
 -AFLSCCLNWGNSLQILDQVELRA YPPAIPHNLSCLMNLTTSSLICQWEPGPETHLPTS

IL6RPRRLR  
 P08887 | IL6A\_HUMAN | AVLLVHRE----- GETLMFQEPCQYSQESQKFSCHF[GKQYTSMWRTYIVSMSVASS  
 Q14626 | I11R\_HUMAN | AVLLVRKFQN----- SFAEDFQEPCQYSQESQKFSCQLAVPEGD-SSFYIVSMCVASS  
 P16471 | PRRL\_HUMAN | YLTSYRKKTIVLGADSQRSPSTGPWPCPQD-PLGAARCVVHGAEFW--SQYRINVTEVNP  
 Q99062 | GCSR\_HUMAN | YSLTYHRE----- GETLMHECPDYITGGPNSCFGKQYTSMWRTYIMMVNATNQ  
 FTLKSFKSRNC----- QTQGDSILDCVPK-DGQSHCCIPRKHLLLYQNMGIWVQAENAL  
 12 13

IL6RPRRLR  
 P08887 | IL6A\_HUMAN | VGSKFSDELYVDVTYILQPDPPANITVTAVA-RNPR---WLSVTWQDPHLIDLK-TGWFT  
 Q14626 | I11R\_HUMAN | VGSKFSKTQTFQGCGILQPDPPANITVTAVA-RNPR---WLSVTWQDPHSWNSS---FYR  
 P16471 | PRRL\_HUMAN | -LGASTRLLDVSLQSLILRPDPQGLRVEVP-GYPR---RLRASWTYPASWPCQ--PHFL  
 Q99062 | GCSR\_HUMAN | MGSSFSDELYVDVTYIVQPDPPLELAVEVKQ-PEDR-KPYLWIKWSPPTLIDLK-TGWFT  
 GTSMSPQTLCIDPMDDVVKLEPPMLRTMDPSPEAAPPQAGCLQLCWEPWQPGIHNQKCEL  
 14 15

IL6RPRRLR  
 P08887 | IL6A\_HUMAN | LR[FELRYRAERSKTFITWFAG-QQHHSVIHDAWSGLRHVVQLRAKPD--HGYWSEWSPEA  
 Q14626 | I11R\_HUMAN | LRFELRYRAERSKTFITWVVKDLQHHCVIHDAWSGLRHVVQLRAQEEFGQGEWSEWSPEA  
 P16471 | PRRL\_HUMAN | LKFRLQYRPAQHPAWSTVEPAG--LEEVITDAVAGLPHAVRVSARDFLDAGTWSTWSPEA  
 Q99062 | GCSR\_HUMAN | LLYEIRLKPEKAAEWEIHFAQQ-QTEFKILSLHPGQKYLVQVRCKPD--HGYWSAWSPAT  
 RHKPQRGEASWALVGPLPLEAL-QYELCGLLP--ATAYTLQIRCIRWPLPQGHWSWDWSPSL  
 16 17

IL6RPRRLR  
 P08887 | IL6A\_HUMAN | MGTPWTE -----  
 Q14626 | I11R\_HUMAN | MGTPWTE RSPPAENEVST----- PMQALTTN--KDDDNILFRDSANATSLPVQ  
 P16471 | PRRL\_HUMAN | WGTGSTG IPKEIPAWGQL----- HTQPEVEP--QVDSAPPRLSIQPHPRLLD  
 Q99062 | GCSR\_HUMAN | FIQIPSD TMNDTTWISVAVLSAVICLIIVWAVALKGYSMVTICIFPPVPGPKIKGFDAAH  
 ELRTTER PTVRLLDTWWRQR-QLDPRTVQLFWKPVPLEEDSGRIQGYVVS-WRPSGQAGA

Figure 3A

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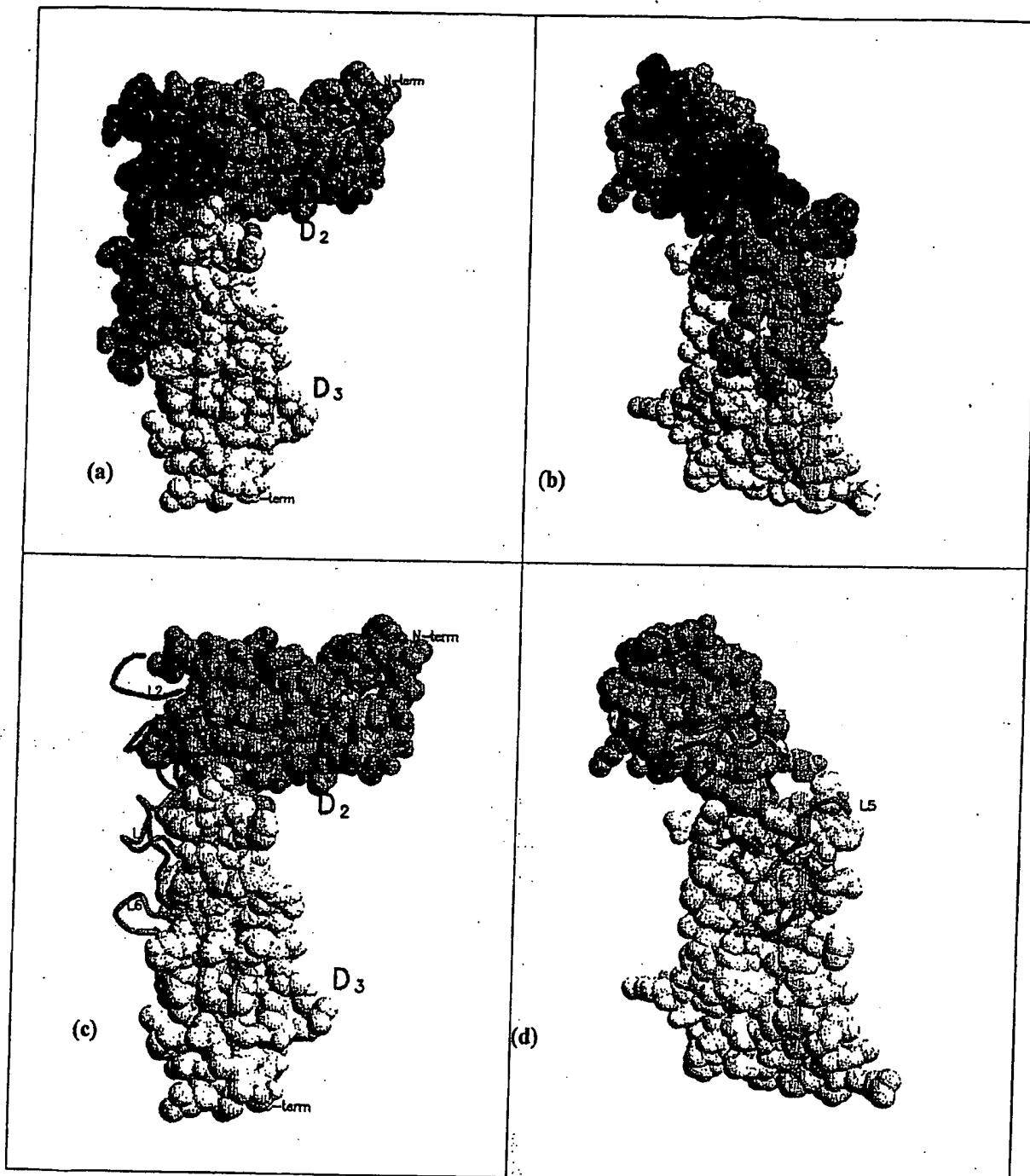


Figure 4

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mCCSF\_122-334  
 mGCSF\_121-333  
 hccmMR\_26-240  
 mccmMR\_30-243  
 mIL3HR\_30-244  
 hccmMR\_340-439  
 mccmMR\_243-442  
 mIL3HR\_344-441  
 bcp130\_124-325  
 mgp130\_124-323  
     HGRH\_46-262  
 mH\_GHR\_46-271  
 hIL1p40\_122-328  
 mIL1p40\_119-332  
     HFRP\_39-247  
     mEPOR\_39-246  
 hIL6R\_112-317  
 mIL6R\_108-313  
 hIL4R\_24-224  
 mIL4R\_24-223  
 hPLR\_24-229  
 mPLR\_19-224  
 hCRF1\_133-342  
 mCRF1\_136-345  
 hIL12B2R\_122-320  
 mIL12B2R\_135-336  
 hIL11R\_111-316  
 mIL11R\_111-318  
 hIL11RA1\_111-318  
 hIL11RA2\_111-318  
 hCNTFR\_107-317  
     hCR\_23-229  
     mCR\_23-228  
 hthrombR\_27-285  
 mthrombR\_27-277  
 hleptinR\_42-638  
     hleptinR\_427-636  
     hleptinR\_124-332  
     mleptinR\_124-330  
         hIL21R\_17-229  
         mIL21R\_17-229  
 hthrombR\_285-490  
 mthrombR\_277-481  
     hwsx1\_34-232  
     mwsx1\_29-226  
 hIL2BR\_30-235  
 mIL2BR\_30-236  
 hIL9R\_48-261  
 mIL9R\_47-261  
 hIL2BIR\_42-234  
 mIL2BIR\_43-256  
 hIL13A1R\_123-337  
 mIL13A1R\_121-333  
 hIL13A2R\_134-333  
 mIL13A2R\_128-327  
     hILSR\_123-332  
     mILSR\_120-329  
 hGMCSFR\_115-348  
 mGMCSFR\_124-352  
     hIL3R\_100-292  
     mIL3R\_113-322  
 hccmMR\_39-253  
     mccmMR\_39-254  
 hTSLPR\_30-216  
 mTSLPR\_27-217  
     hLIFR\_48-246  
     mLIFR\_17-241  
     hLIFR\_391-534  
     mLIFR\_326-529  
 hOSMR\_25-140  
 mOSMR\_25-139  
 hOSMR\_239-429  
 mOSMR\_232-426  
     hIL7R\_28-236  
     mIL7R\_28-236  
 domecyt1\_115-330  
 domecyt2\_176-391  
     consensus  
         hGMR  
         mGMR  
         mChirica\_cadrc  
         hChirica\_cadrc  
         ruler 1, . . . , 10, . . . , 20, . . . , 30, . . . , 40, . . . , 50

**Figure 5A**

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**Figure 5A (cont)**

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**Figure 5A (cont)**

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Figure 5B

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**Figure 5B (cont)**

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**Figure 5B (cont)**

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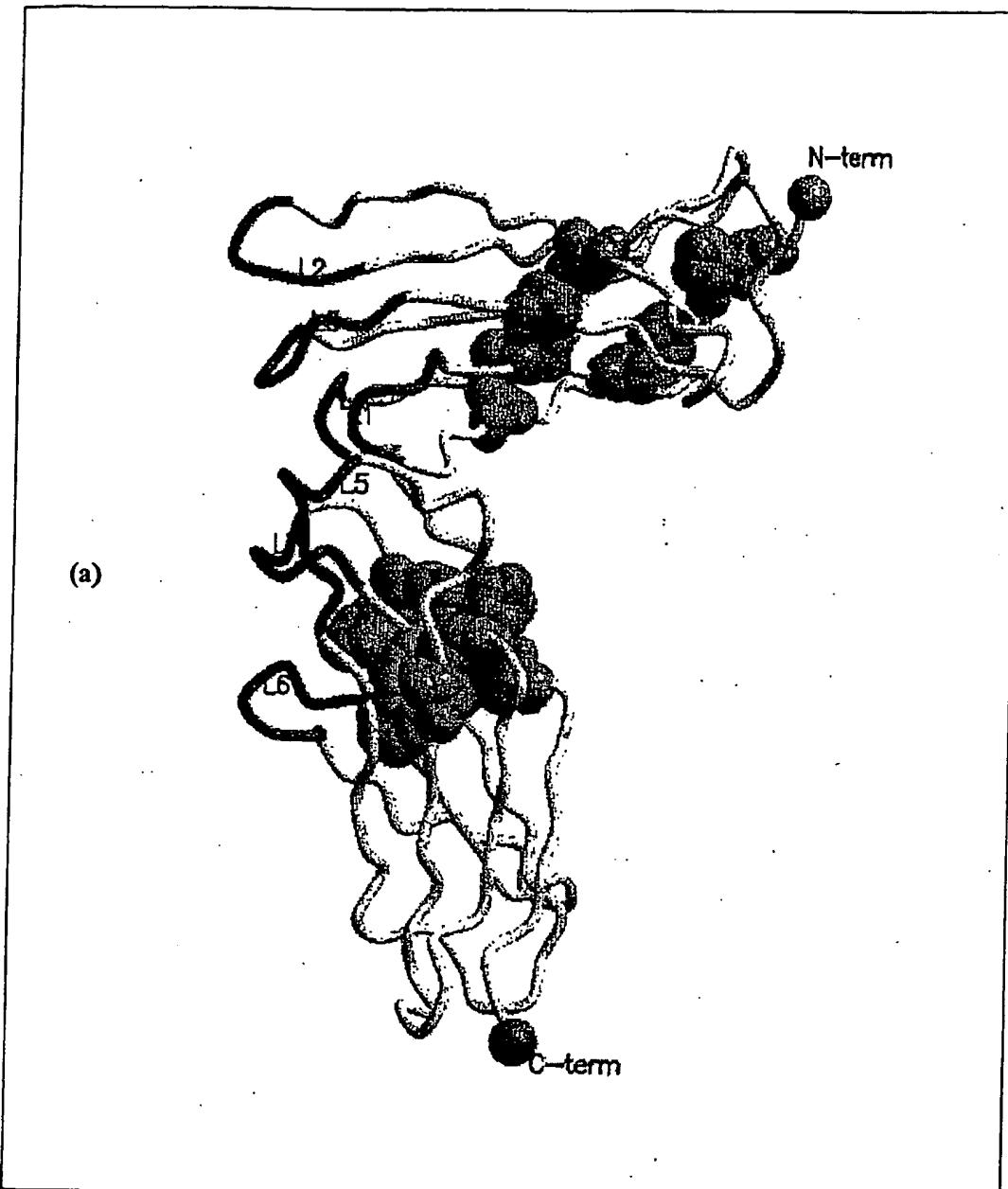


Figure 6(a)

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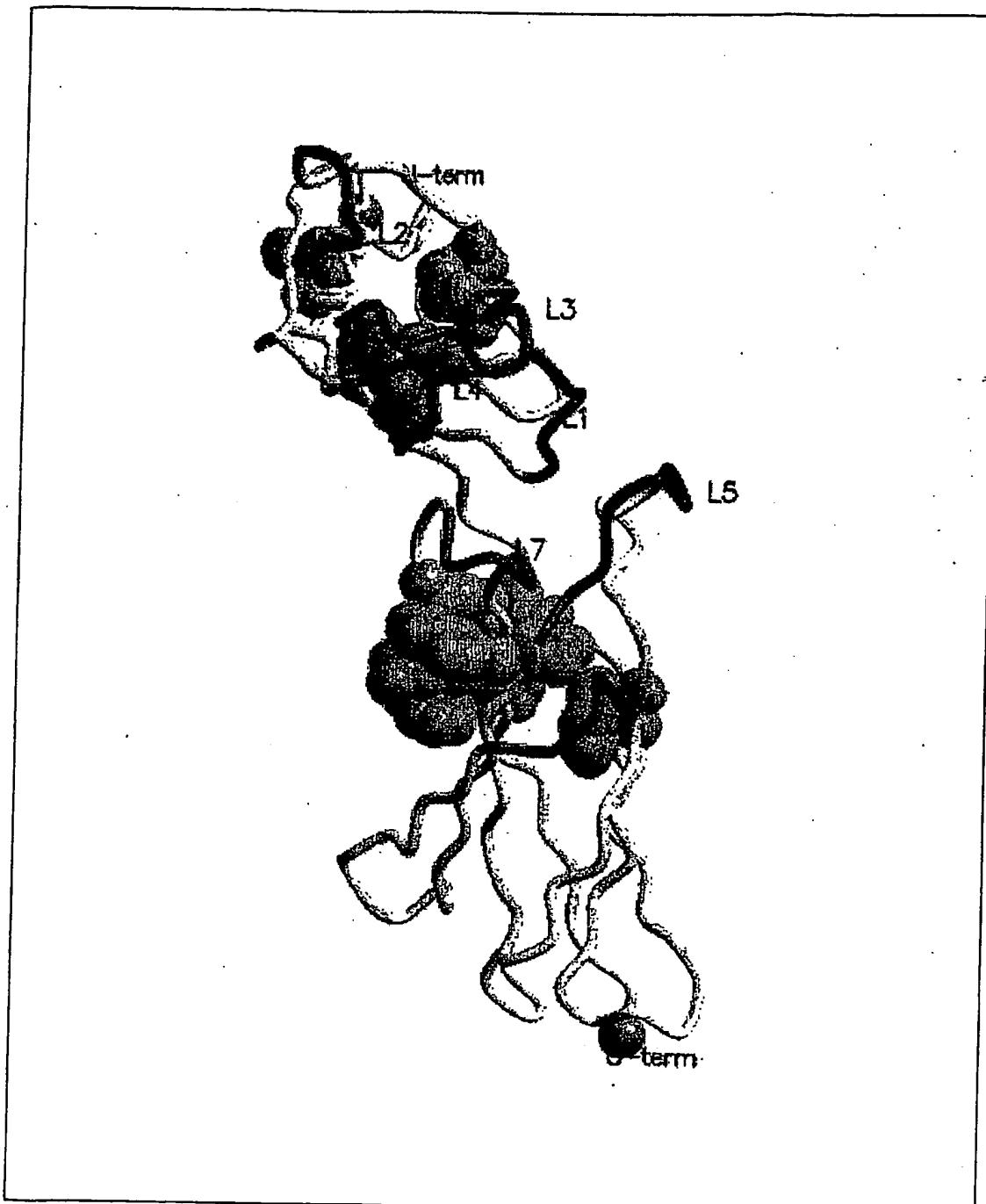


Figure 6(b)

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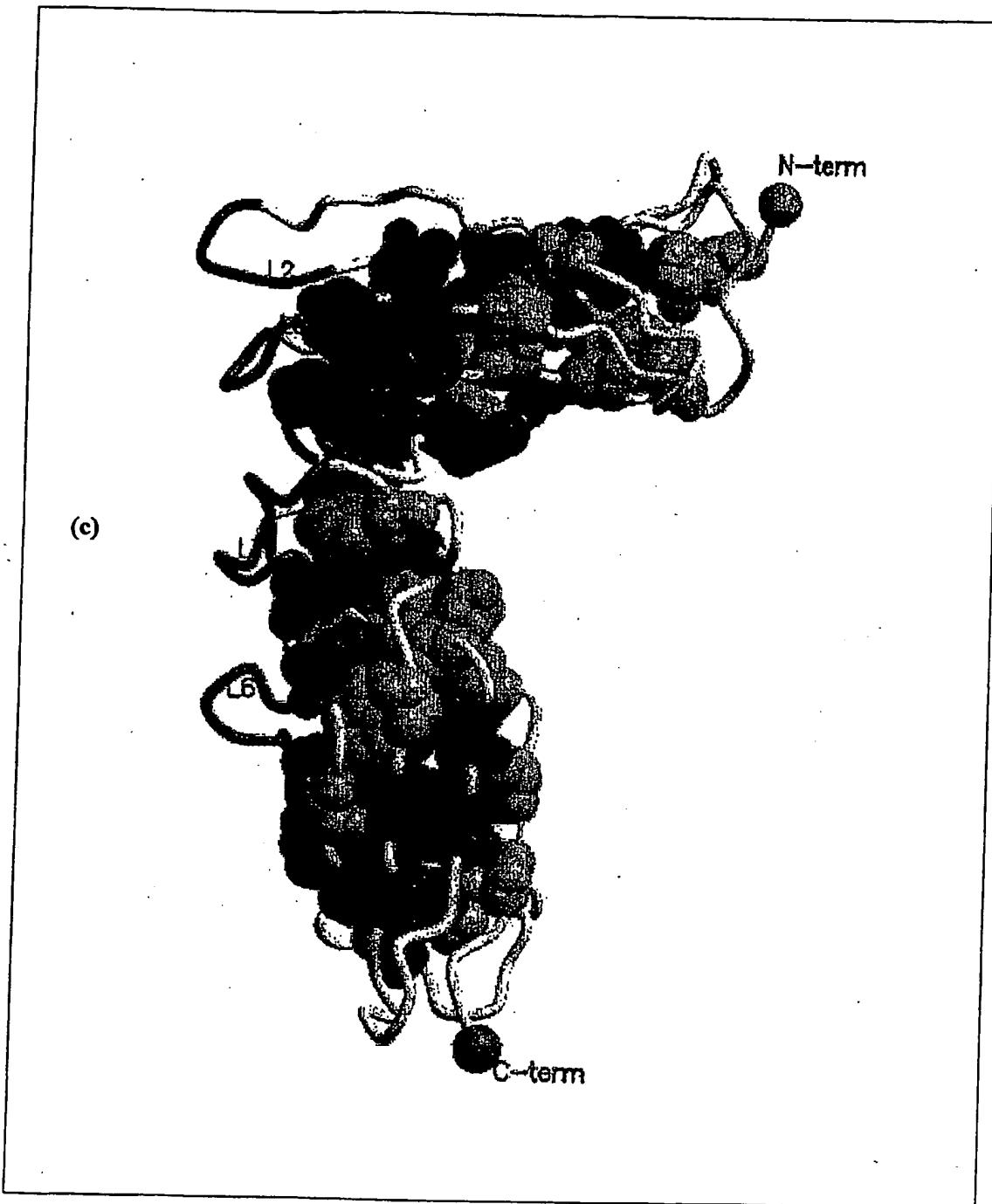


Figure 6(c)

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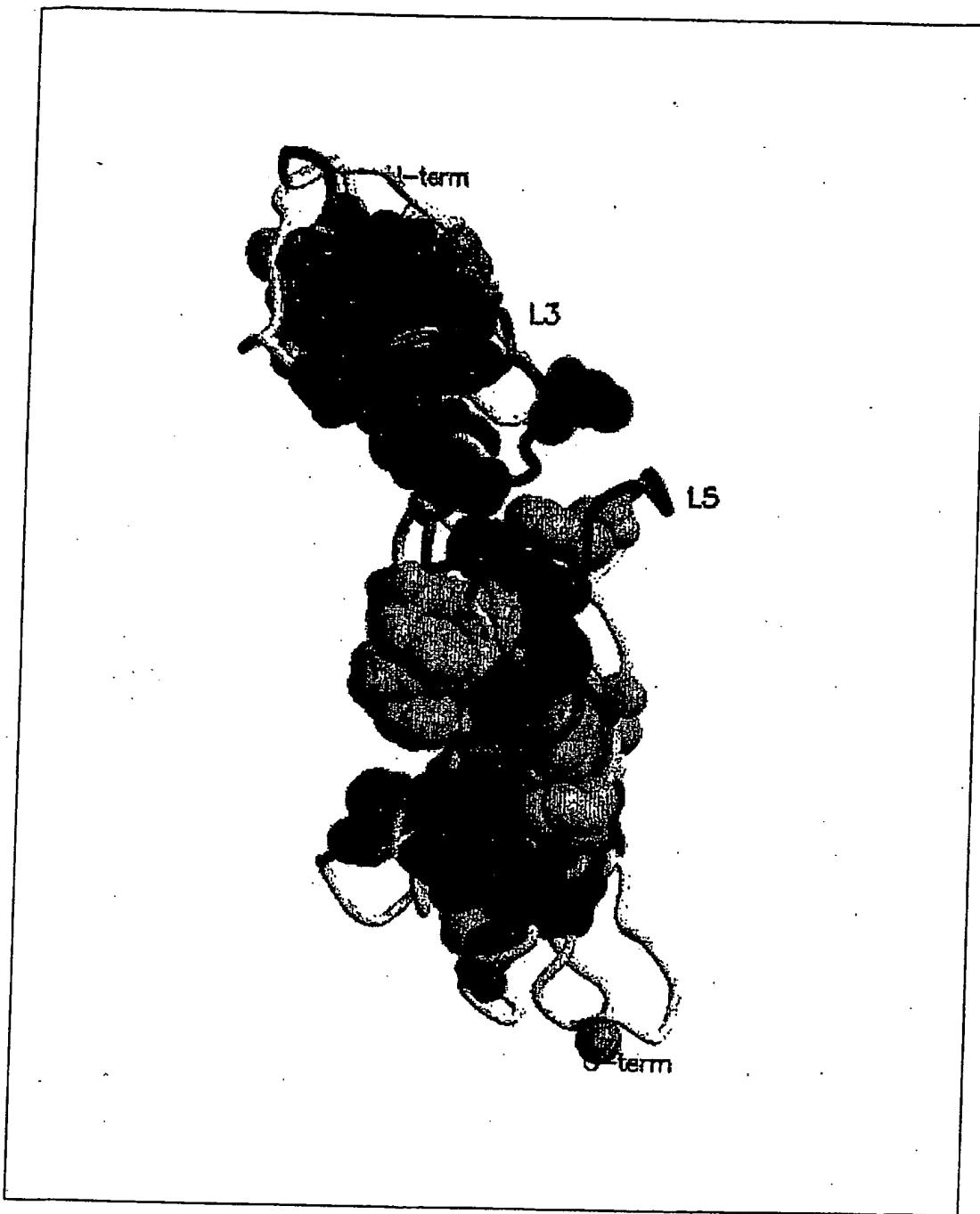
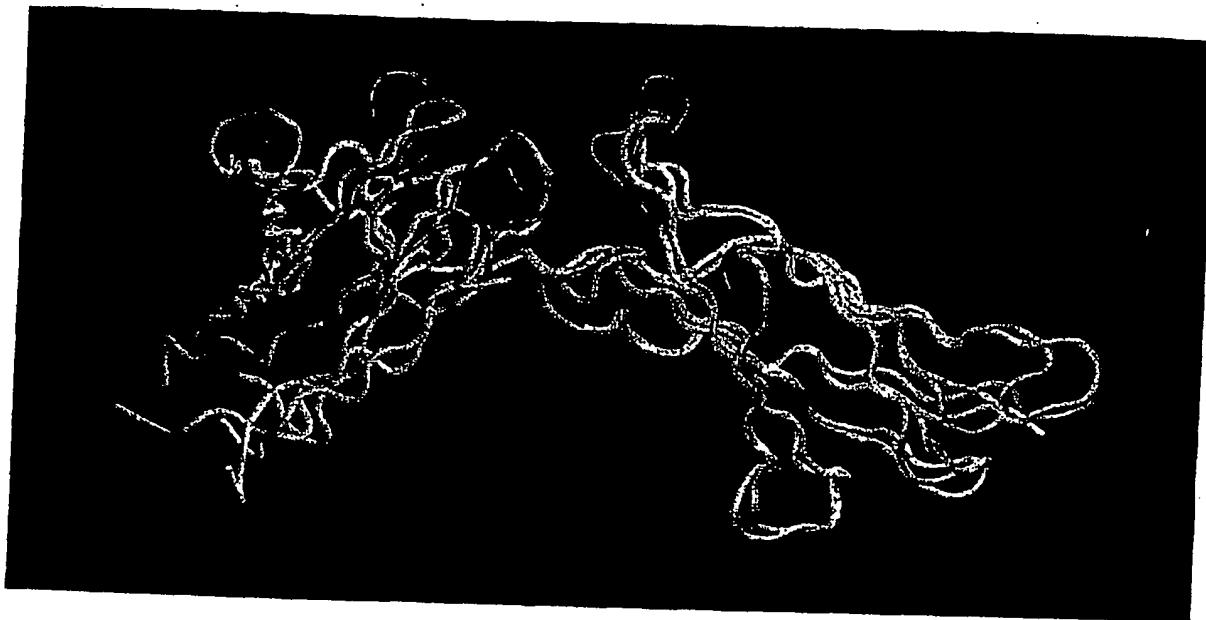


Figure 6(d)

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**Figure 7**

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